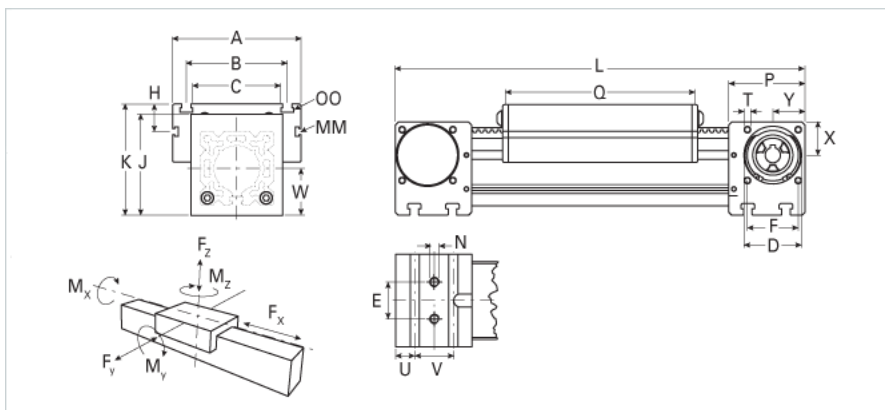
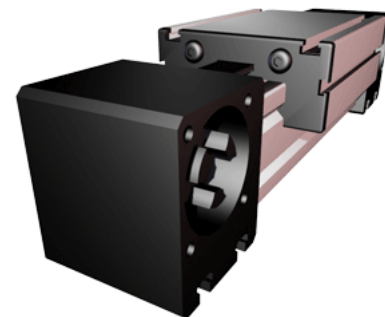


EGZ 80

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| Details | |
|---|---------|
| Size | 80 |
| Belt | 8M30 |
| MM/REV | 192 |
| Number of Teeth | 24 |
| Dimensions | |
| A [mm] | 140 |
| B [mm] | 110 |
| Basic Length L [mm] | 375 |
| C [mm] | 100 |
| D [mm] | 68 |
| E [mm] | 40 |
| F [mm] | 60 |
| H [mm] | 30 |
| J [mm] | 110 |
| K [mm] | 121 |
| MM | M6 |
| N | M10 |
| OO | M10 |
| P [mm] | 90 |
| Q [mm] | 193 |
| T | M8 |
| U [mm] | 22.5 |
| V [mm] | 45 |
| W [mm] | 51 |
| X [mm] | 39 |
| Y [mm] | 38 |
| Shaft Key [mm] | 6x6x40 |
| Shaft Diameter h6 x Length [mm] | 18 x 45 |
| Shaft Diameter and Length [mm] | 18 x 45 |
| Key | 6x6x40 |
| Speed | |
| Speed Maximum [m/s] | 2 |
| Forces and Torques | |
| No Load Torque [Nm] | 0.9 |
| Tensile force 0.2 sec [N] | 2090 |
| Tensile force permanent [N] | 1900 |
| Fx dynamic [N] | 1800 |
| Fy dynamic [N] | 900 |
| Fz dynamic [N] | 1000 |
| Mx dynamic [Nm] | 75 |
| My dynamic [Nm] | 200 |
| Mz dynamic [Nm] | 150 |
| Fx static [N] | 1900 |
| Fy static [N] | 1000 |
| Fz static [N] | 1125 |
| Mx static [Nm] | 82 |
| My static [Nm] | 220 |
| Mz static [Nm] | 165 |
| Geometrical moments of inertia of aluminum profile | |
| Elastic modulus [N/mm ²] | 70000 |
| Ix [mm ⁴] | 1923000 |
| Iy [mm ⁴] | 2109.45 |

| Weight | |
|--|-------|
| Additional Weight per 100 mm [kg] | 0.82 |
| Basic Weight [kg] | 9.36 |
| Values for Calculating Inertias | |
| Pulley Material | Steel |
| Pulley Diameter [mm] | 61.12 |
| Effective Pulley Width [mm] | 100 |
| Belt Weight [kg/m] | 0.256 |
| Standard Carriage Weight [kg] | 2.64 |
| No-load torque [Nm] | 0.9 |
| Friction Coefficient | 0.01 |